

**We Claim:**

1           1.       A system for draining and trapping vent condensate in a multipoise  
2 furnace in which a one piece drain tee is connected to an inducer and vented  
3 outwardly while the bottom of the tee contains means for connection to a tee drain  
4 tube which is connected to and exits through a furnace drain trap, wherein said tee  
5 includes an integral drain reservoir having a bottom drain tap, with said drain tee  
6 further including means for connection to said inducer and to an outward vent.

1           2.       The system of claim 1 in which said furnace is an upflow installation  
2 with an internal drain tee in a top vent mode.

1           3.       A system for draining and trapping vent condensate in a multipoise  
2 furnace in which a combination drain tee/drain tee trap is connected to an inducer  
3 and vented outwardly, wherein said drain tee further includes an integral drain  
4 reservoir, and means for connection to said inducer and an outward vent, and where  
5 said drain tee trap is connected to the bottom of said drain tee and includes a two  
6 piece sealed trap, and water column pressure trapping means.

1           4.       The system of claim 3 in which said drain tee trap includes an outlet  
2 connection adapted for connection to a drain.

1           5.       The system of claim 3 in which said furnace has an external left side  
2 vent with said drain tee and trap.

1           6.       The system of claim 3 in which said furnace has an external right side  
2 vent with said drain tee and trap.

1           7.       The system of claim 3 in which said furnace has a downflow  
2 installation having an external left side vent.

1           8.       The system of claim 3 in which said furnace has a downflow  
2       installation having an external right side vent.

1           9.       The system of claim 3 in which said furnace has a horizontal left  
2       installation with an internal drain tee and external drain tee trap with a left side vent.

1           10.      The system of claim 3 in which said furnace has a horizontal left  
2       installation with an external top vent.

1           11.      The system of claim 3 in which said furnace has a horizontal right  
2       installation with an internal drain tee and external drain tee trap with a right side  
3       vent.

1           12.      The system of claim 3 in which said furnace has an external top vent.

1           13.      A combination drain tee/drain tee trap suitable for use in a system for  
2       draining and trapping vent condensate in a multipoise furnace wherein said drain tee  
3       comprises an outer housing which includes an integral drain reservoir and bottom  
4       drain trap, and means for connection to a furnace inducer and an outward vent, and  
5       where said drain tee trap is connected in sealed engagement to the bottom of said  
6       drain tee and includes a sealed trap, and water column pressure trapping means.

1           14.      The combination drain tee/drain tee trap of claim 12 in which the  
2       drain tee trap includes an outlet connection adapted for connection to a drain.